Installation Instructions

153630 (-006 & -007)

Handpiece Illumination System

[for 12:00 FSC Mounted Units]

Remove Standard Handpiece Tubing

(1) Open center door to access control panel.

(2) Disconnect two pieces of 1/8 in. handpiece tubing (1, Figure 1) from kink valve assembly (2).

(3) Disconnect 1/4 in. clear tubing (3) from kink valve assembly (2).

(4) Disconnect 1/4 in. handpiece tubing (4) from 1/4 in. clear tubing (5).

(5) Disconnect 1/8 in. clear tubing (6) from check valve (7).

NOTE
Cut cable ties as necessary to remove handpiece tubing.

(6) Remove handpiece tubing.

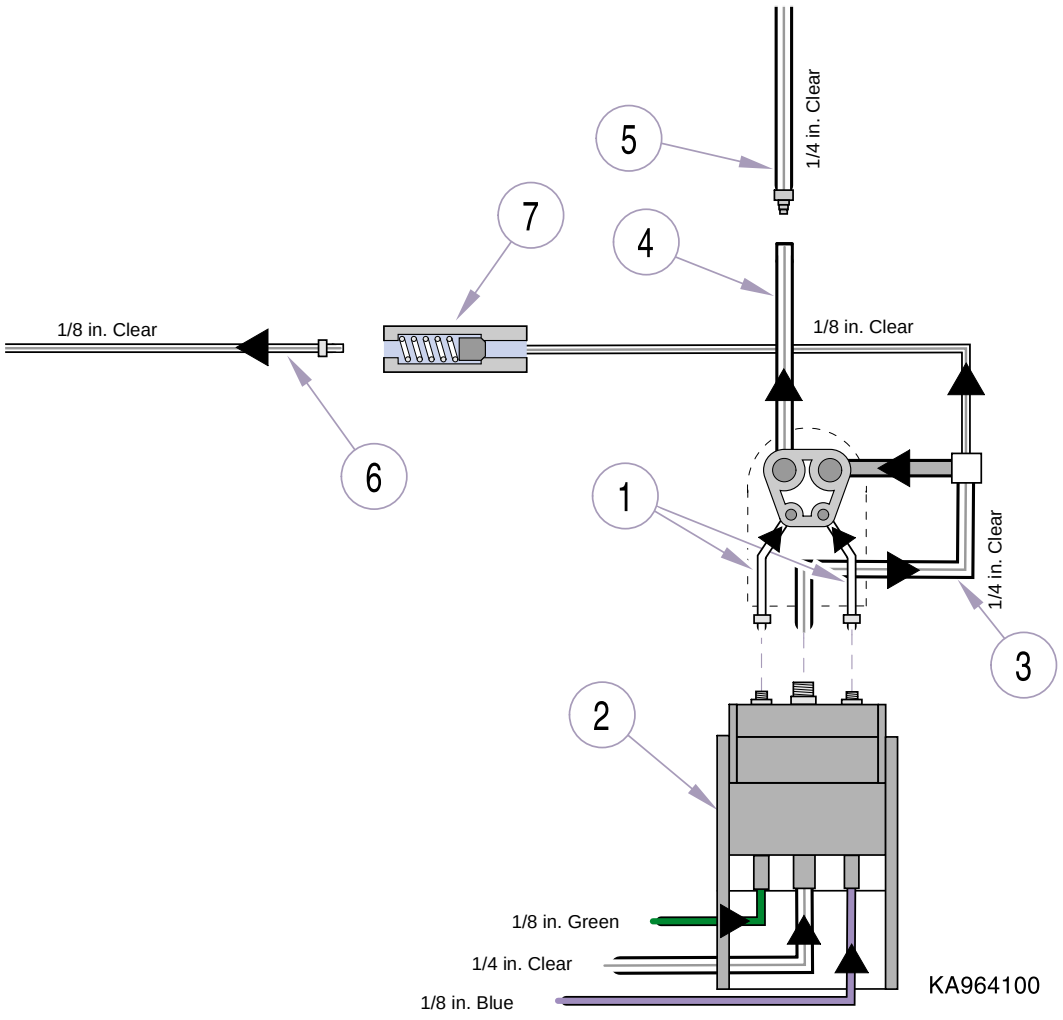

Figure 1. Standard Handpiece Tubing Removal

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003-1345-00 Rev. B (11/03)

Control Panel Tubing Connections

EQUIPMENT ALERT
There are two sections of handpiece tubing in this kit. In this procedure, install the section that has four tubes separated at one end and a tubing connector at the other end.

NOTE
Slide uni-clamps ***[included w/kit]*** onto 1/8 in. tubing before making connections.

Coolant Air

(1) Connect 1/8 in. handpiece tubing (1, Figure 2) to fitting (A) of kink valve (2). Secure with uni-clamp.

Coolant Water

(2) Connect 1/8 in. handpiece tubing (3) to fitting (B) of kink valve (2). Secure with uni-clamp.

Drive Air

(3) Connect 1/4 in. clear tubing (4) ***[from fitting of handpiece tubing]*** to fitting (C) of kink valve (2).

Exhaust Air

(4) Connect 1/4 in. handpiece tubing (5) to 1/4 in. clear tubing (6).

To Pressure Gauge

(5) Connect 1/8 in. clear tubing (7) to check valve (8). Secure with uni-clamp.

To Power Pack

(6) Connect one end of 1/8 in. clear tubing (9) ***[included w/kit]*** to tee fitting (10).

(7) Connect other end of 1/8 in. tubing (9) to power pack (11). Secure with uni-clamp.

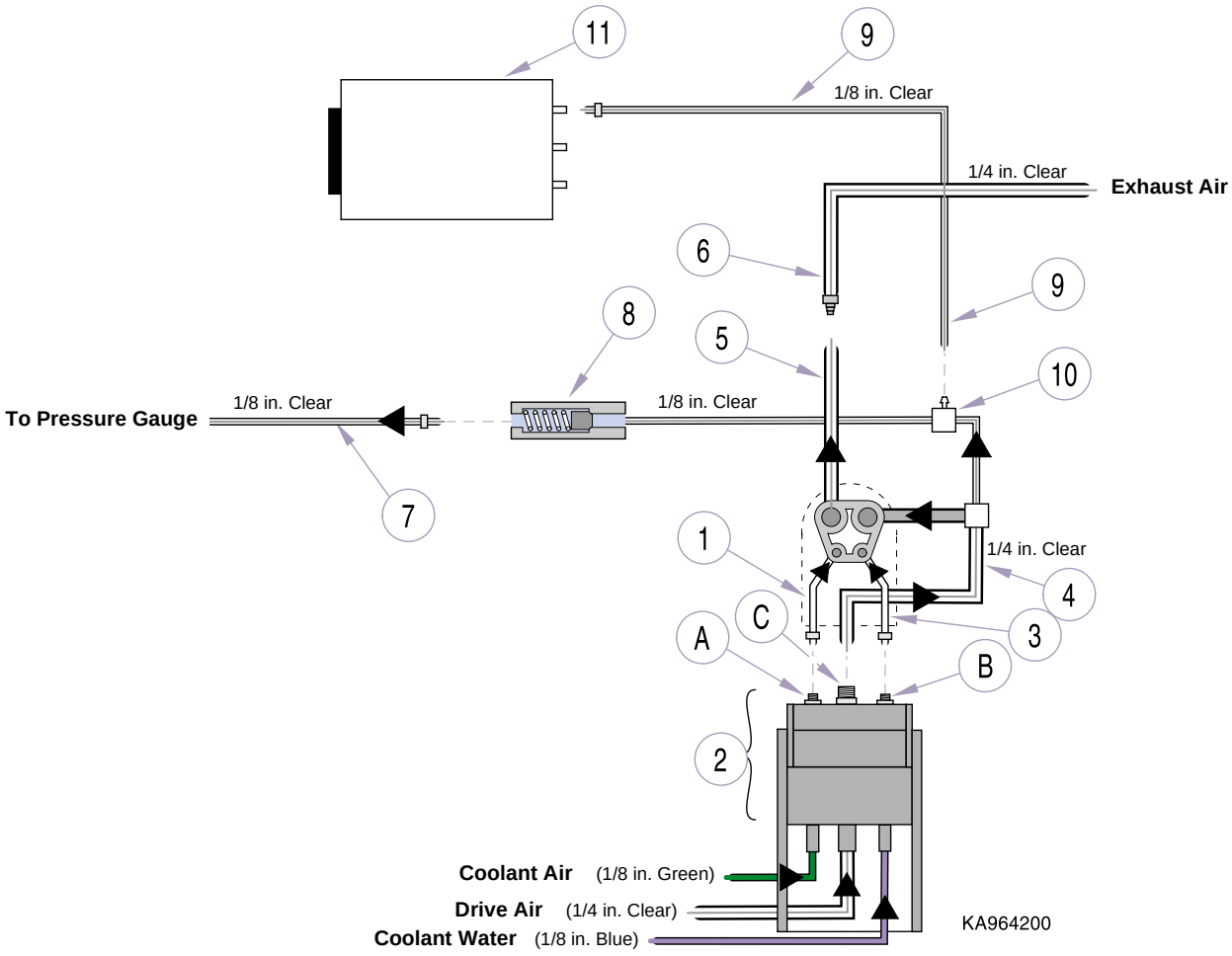

Figure 2. Control Panel Tubing Connections

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Power Pack Wiring Connections

EQUIPMENT ALERT

The position of the wiring connections on the power pack (H1, H2, or H3) depends upon which fitting (on the power pack) the tubing was connected to in the previous procedure. Refer to Figure 4 for proper connection points before performing Step 4. [Example: If tubing is connected to fitting (A, Figure 4), connect wires to H3 (A); If tubing is connected to fitting (B), connect wires to H2 (B), etc.].

(1) Connect black wire (1, Figure 3) and white wire (2) ***[from wiring harness]*** to proper conection point (H1, H2, or H3) of power pack (3).
*[See **Equipment Alert** for connection points]*

(2) Connect two black wires (4) from transformer (5) to connection point marked **AC** on power pack (3).

(3) Plug transformer (5) into proper receptacle.

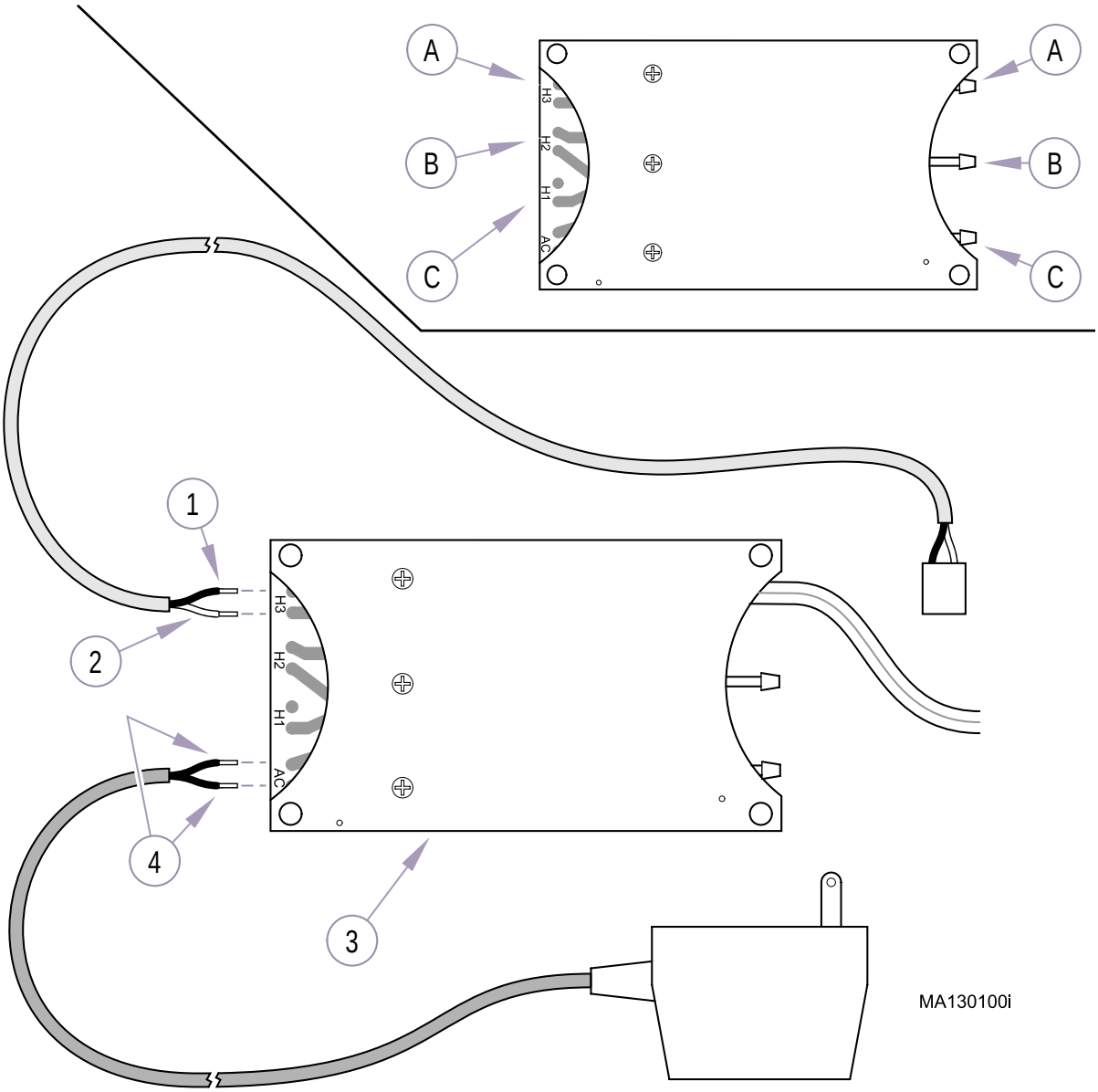

Figure 3. Power Pack Wiring Connections

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Power Pack Voltage Adjustment

EQUIPMENT ALERT
The system is pre-set to deliver 3.35 v at the lamp. This procedure is not necessary unless the handpiece being installed requires a different voltage.

NOTE
There are three adjustment screws to permit individual adjustment of up to three handpieces on the same system.

(1) Install handpiece connector w/lamp, and handpiece onto handpiece tubing.

(2) Place the leads of a multimeter on appropriate terminals of power pack (1, Figure 4). *[Terminal location varies w/tubing position; refer to Figure 3 if necessary]*.

(3) Using an allen wrench, turn appropriate adjusting screw (2) fully down (counterclockwise).

(4) Step on foot control so that lamp illuminates; then slowly turn adjusting screw (2) clockwise until multimeter reads 0.5 v higher than lamp specification.

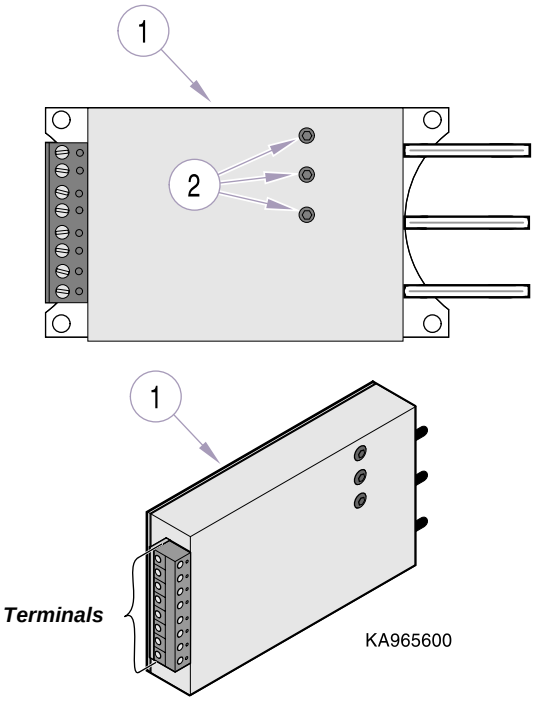

Figure 4. Voltage Adjustment
(perform only if necessary)

Mounting the Power Pack

(1) Align holes in power pack (1, Figure 5) with mounting holes in control panel (2).

(2) Secure with four screws (3) and four nuts (4).

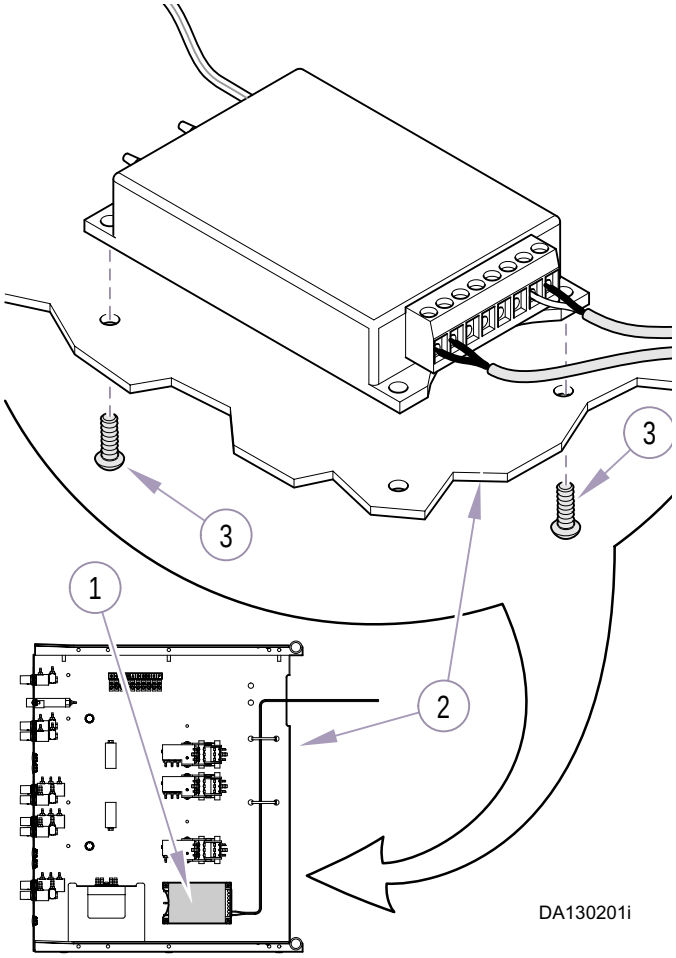

Figure 5. Voltage Adjustment

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Routing / Connecting the Wiring Harness & Handpiece Tubing

NOTE
Cut cable ties as necessary to route wire harness & tubing thru mesh sleeve.

(1) Route handpiece tubing (1, Figure 6) and wiring harness (2) ***[from control panel]*** thru mesh sleeve (3).

(2) Route other section of handpiece tubing (4) thru hole in tubing retainer bracket (5).

(3) Plug two wire terminals (6) from handpiece tubing (4) into molex connector (7) ***[shipped in parts bag]***.

(4) Connect handpiece tubing (1) to other section of handpiece tubing (4).

(5) Connect wiring harness (2) to molex connector (7). [Must be connected with wires: ***black to black*** & ***white to white***].

(6) Replace any cable ties that were cut.

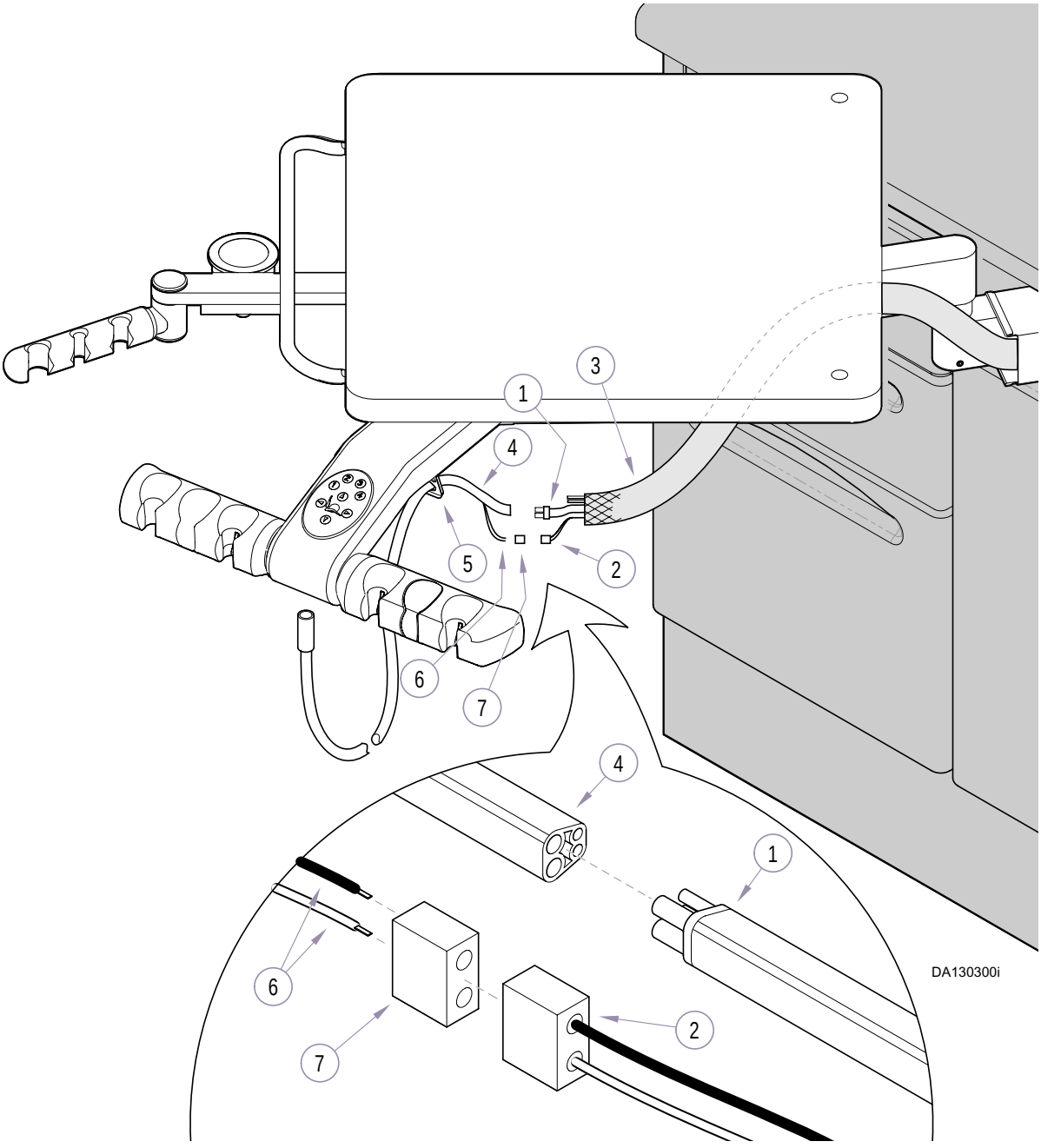

Figure 6. Routing / Connecting the Handpiece Tubing & Wiring Harness

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